

ZipThaw 202 Warming Cushion Fluid

Minnetronix Medical for FreMon Scientific. Inc.

Safety Data Sheet

Revision date: 2 August 2023
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Version: Rev 1

1. Product and Company Identification

1.1 Product identifiers

Product Name	ZipThaw202 Warming Cushion Fluid
Producer	Minnetronix Medical for FreMon Scientific, Inc.
Product Number	No data available
CAS-No.	Mixture

1.2 Identified uses of the product and uses advised against

Identified Uses	Warming Fluid
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1.3 Details of the chemical supplier

Company	Minnetronix Medical
Address	1635 Energy Park Drive St. Paul, MN 55108 USA
Telephone:	313-701-8892

1.4 Emergency phone number

Emergency phone number	313-701-8892
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2. Hazards Identification

2.1 Classification of the substance or mixture

GHS Class	Not a hazardous substance or mixture
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Classification according to Regulation (EC) No 1272/2008

Based on present data no classification and labeling is required according to Directive 1272/2008/EC and its amendments (CLP Regulation, GHS).

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.

2.2 GHS Label elements, including precautionary statements

GHS Pictograms	Not hazardous
Signal word	Not hazardous
Hazard statements	Not hazardous
Precautionary statements	Not hazardous

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. Composition/Information on Ingredients

3.1 Product mixture

Synonyms	No data available
Formula	No data available; mixture
Molecular wt	Mixture
CAS-No.	Mixture

Chemical Name	CAS-No.	Ingredient Percent
Water	7732-18-5	99.9%
Potassium Disulfite	16731-55-8	<0.1%
Automate Blue 8A	Mixture	<0.1%

Remarks There are no additional hazardous ingredients greater than or equal to 1.0 wt% concentration or carcinogenic ingredients greater than or equal to 0.1 wt% concentration.

4. First Aid Measures

4.1 4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

Skin contact First aid is not normally required. If irritation occurs, wash off with a disinfectant soap and water. Consult a physician if symptoms occur.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if symptoms occur.

Inhalation In case of difficult breathing, move person to fresh air. Consult a physician if symptoms occur.

Ingestion Wash out mouth with water. Do not induce vomiting or give anything by mouth to an unconscious person. Consult a physician if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects The most important known symptoms and effects are described in the labelling (see section 2.2) and in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Other first aid No data available

5. Fire Fighting Measures

5.1 Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Special hazards Excessive thermal decomposition at very high temperatures can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

5.3 Advice for firefighters

Protective equipment Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions Place waste in an appropriately labeled container for disposal. Recover as much of the material as possible. Care should be taken to avoid environmental release.

6.3 Methods and materials for containment and cleaning up

Methods for cleanup Contain spilled material. Absorb with an inert material if necessary. Vacuum or sweep up as necessary. Dispose of in accordance with local regulations.

6.4 References to other sections

Other references For disposal see section 13.

7. Handling and Storage

7.1 General hygiene considerations

General hygiene Avoid contact with skin and eyes. In case of large quantities of vapor or mist, use local exhaust or general dilution ventilation to control exposure within applicable limits. For precautions see section 2.2.

7.2 Precautions for safe handling

Safe handling precautions Store in a cool dry place. Keep away from direct sunlight or excessive heat. Protect from freezing.

7.3 Conditions for safe storage, including any incompatibilities

Other storage conditions Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection**8.1 Control and exposure limits recommended by the chemical manufacturer**

OSHA Standards (From Automate Blue 8A) Xylene 1330-20-7 TWA 100 ppm 435 mg/m³ (
 (From Automate Blue 8A) Ethyl Benzene 1 00-41-4 TWA 100 ppm 435 mg/m³
 (From Automate Blue 8A) (2-methoxymethylethoxy)propanol 34590-94-8 TWA 100 ppm 600 mg/m³

8.2 Appropriate engineering controls

Engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Use adequate ventilation where dust forms to keep concentration under exposure control limits.

8.3 Individual protection measures, such as personal protective equipment

Respiratory protection None required for consumer use. For manufacturing quantities: where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye/face protection None required for consumer use. For manufacturing quantities: safety glasses with side-shields conforming to EN166 are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand protection None required for consumer use. For manufacturing quantities: handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection None required for consumer use. For manufacturing quantities: wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

a) Appearance	Thin blue liquid
b) Odor	No data available
c) Odor threshold	No data available
d) pH	Not applicable
e) Melting/freezing point	No data available
f) Boiling point	No data available
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	Upper (UEL): No data available Lower (LEL): No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Solubility	Soluble
o) Partition coefficient octanol/water	No data available
p) Auto-ignition temp	No data available
q) Decomposition temp	No data available
r) Viscosity	No data available

10. Stability and Reactivity**10.1 Reactivity**

Reactivity No reactions expected.

10.2 Chemical stability

Chemical stability Stable under ordinary conditions of use and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions None.

10.4 Conditions to avoid

Conditions to avoid Excessive heat and direct sunlight.

10.5 Incompatible materials

Incompatible materials Strong oxidizing agents,

10.6 Hazardous decomposition products

Hazardous products Irritating gases and vapors.

11. Toxicological Information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity (From Automate Blue 8A) Xylene 1330-20-7 LD50 (Rat): 4,300 mg/kg

Acute dermal toxicity No data available

Acute inhalation toxicity (From Automate Blue 8A) Xylene 1330-20-7 LC50 (Rat): 5000 ppm Exposure time: 4 h

Skin corrosion/irritation

Skin corrosion irritation No data available

Serious eye damage/eye irritation

Eye damage/eye irritation No data available

Respiratory or skin sensitization

Respiratory sensitizer No data available

Skin sensitizer No data available

Germ cell mutagenicity

Mutagenicity No data available

Suspected cancer agent

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

Reproductive toxicity

Reproductive toxicity This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans.

Aspiration hazard

Aspiration hazard No data available

12. Ecological Information**12.1 Ecotoxicity (aquatic and terrestrial)**

Ecotoxicity No data available

12.2 Persistence and degradability

Degradability No data available.

12.3 Bioaccumulation potential

Bioaccumulation No data available

12.4 Mobility in soil

Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment Not available as chemical safety assessment not required/not conducted.

13. Disposal Considerations

13.1 Waste treatment methods

Waste treatment disposal

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

14. Transport Information

DOT

Not dangerous goods.

TDG

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. Regulatory Information

15.1 Safety, health, and environmental regulations specific to the product or mixture

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

TSCA

All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements.

EINECS

Substances are either included in EINECS, ELINCS, NLP inventories or exempt.

Canada DSL

All components of this product are on the Canada Domestic Substance List.

CA Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

State Regulatory Lists:

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list or all state regulations. Therefore, the user should review the components listed in Section 2 and consult state or local authorities for specific regulations that apply.

16. Other Information

HMIS Rating

Health hazard: 1
Flammability: 1
Physical Hazard 0

NFPA Rating

Health hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

Revision Date

2 August 2023

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Minnetronix Medical assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally Minnetronix Medical assumes no responsibility for injury to vendee or third persons proximately caused by use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Abbreviations and acronyms

IMDG - International Maritime Code for Dangerous Goods
TDG - Transportation of Dangerous Goods
IATA - International Air Transport Association
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
PBT - Persistent, bioaccumulative and toxic assessment
vPvB - Very persistent and very bioaccumulative assessment
ACGIH - American Conference of Governmental Industrial Hygienists
NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values
CAS - Chemical Abstracts Service (division of the American Chemical Society)
NFPA - National Fire Protection Association
HMIS - Hazardous Materials Identification System
CFR - Code of Federal Regulations
SARA - Superfund Amendments and Reauthorization Act
DOT - US Department of Transportation
EC50 - Half maximal effective concentration
LD50 - Median lethal dose
LC50 - Median lethal concentration
SDS - Safety Data Sheet